| L Number | Hits     | Search Text                                                                                         | DB        | Time stamp        |
|----------|----------|-----------------------------------------------------------------------------------------------------|-----------|-------------------|
| 1        | 145      | (asic\$1 near20 (card\$1 or module\$1)) and sonet\$1                                                | USPAT;    | 2004/05/03 10:56  |
| -        | 2.3      | \                                                                                                   | US-PGPUB; | ,,                |
|          |          |                                                                                                     | EPO; JPO; | •                 |
|          |          |                                                                                                     | DERWENT;  |                   |
|          |          |                                                                                                     | 1         |                   |
| ا ا      | 0        | //aciett popula (equitt ou medulatt) and constatt                                                   | IBM_TDB   | 2004/05/02 10:50  |
| 2        | U        | ((asic\$1 near20 (card\$1 or module\$1)) and sonet\$1).ab.                                          | USPAT;    | 2004/05/03 10:56  |
|          |          |                                                                                                     | US-PGPUB; |                   |
|          |          |                                                                                                     | EPO; JPO; |                   |
|          |          |                                                                                                     | DERWENT;  |                   |
| _        | _        | ,                                                                                                   | IBM_TDB   |                   |
| 3        | 7        | (asic\$1 near20 (card\$1 or module\$1)).ab. and sonet\$1                                            | USPAT;    | 2004/05/03 10:57  |
|          |          |                                                                                                     | US-PGPUB; |                   |
|          |          |                                                                                                     | EPO; JPO; |                   |
|          |          |                                                                                                     | DERWENT;  |                   |
|          |          |                                                                                                     | IBM_TDB   |                   |
| 4        | 4        | (asic\$1 near20 (card\$1 or module\$1)).ab. and sdh\$1                                              | USPAT;    | 2004/05/03 10:58  |
|          |          |                                                                                                     | US-PGPUB; |                   |
|          |          |                                                                                                     | EPO; JPO; |                   |
|          |          |                                                                                                     | DERWENT;  |                   |
|          |          |                                                                                                     | IBM_TDB   |                   |
| 5        | 5        | (chip\$1 near20 (card\$1 or module\$1)).ab. and sdh\$1                                              | USPAT;    | 2004/05/03 10:59  |
|          |          |                                                                                                     | US-PGPUB; |                   |
|          |          |                                                                                                     | EPO; JPO; |                   |
|          |          |                                                                                                     | DERWENT;  |                   |
|          |          |                                                                                                     | IBM_TDB   |                   |
| 6        | 11       | (chip\$1 near20 (card\$1 or module\$1)).ab. and sonet\$1                                            | USPAT;    | 2004/05/03 11:00  |
|          |          | · · · · · · · · · · · · · · · · · · ·                                                               | US-PGPUB; | , , ==::•         |
|          |          | ·                                                                                                   | EPO; JPO; |                   |
|          |          |                                                                                                     | DERWENT;  |                   |
|          |          |                                                                                                     | IBM_TDB   |                   |
| 7        | 101      | (integrated\$4 near3 circuit\$1).ab. and sonet\$1                                                   | USPAT;    | 2004/05/03 11:01  |
|          | <b>-</b> |                                                                                                     | US-PGPUB; |                   |
|          |          |                                                                                                     | EPO; JPO; |                   |
|          |          |                                                                                                     | DERWENT;  |                   |
|          |          |                                                                                                     | IBM_TDB   |                   |
| 8        | 32       | ((integrated\$4 near3 circuit\$1) and sonet\$1).ab.                                                 | USPAT;    | 2004/05/03 11:01  |
|          |          | ((3a)aa                                                                                             | US-PGPUB; |                   |
|          |          |                                                                                                     | EPO; JPO; |                   |
|          |          |                                                                                                     | DERWENT;  |                   |
|          |          | ·                                                                                                   | IBM_TDB   |                   |
| _        | 292      | ((back\$1 near3 plane\$1) or backplane\$1) near3 (serial\$4)                                        | USPAT;    | 2004/05/01 12:39  |
|          | 232      | (\                                                                                                  | US-PGPUB; | 200 1,00,01 12.00 |
|          |          |                                                                                                     | EPO; JPO; |                   |
|          |          |                                                                                                     | DERWENT;  |                   |
| ·        |          |                                                                                                     | IBM_TDB   |                   |
| _        | 33       | 22.ab.                                                                                              | USPAT;    | 2004/04/19 17:30  |
|          | 33       | ££,WW.                                                                                              | US-PGPUB; | 200 1/07/13 17.30 |
|          |          | •                                                                                                   | EPO; JPO; |                   |
|          |          | ·                                                                                                   | DERWENT;  |                   |
|          |          |                                                                                                     | IBM_TDB   |                   |
| _        | 23       | /"4237546"   "5046067"   "504051 <i>6</i> "   "6092229"                                             | USPAT     | 2004/04/10 17:27  |
| -        | 23       | ("4237546"   "5046067"   "5069516"   "5083238"  <br>  "5117067"   "5210374"   "5257122"   "5301050" | USPAT     | 2004/04/19 17:37  |
|          |          | "5117067"   "5210374"   "5257122"   "5301050"  <br>  "5303220"   "5315480"   "5361203"   "5306575"  |           |                   |
|          |          | "5303229"   "5315489"   "5361293"   "5396575"  <br>  "5500753"   "5600460"   "5610400"   "5666497"  |           |                   |
|          |          | "5500753"   "5600469"   "5619498"   "5666487"  <br>"5680301"   "5715348"   "5734468"   "5838807"    |           |                   |
|          |          | "5680391"   "5715348"   "5724468"   "5828807"                                                       |           |                   |
| L        |          | "5892658"   "5894477"   "6038138").PN.                                                              | L         | l                 |

| - | 0      | (((back\$1 near3 plane\$1) or backplane\$1) near3 (serial\$4))<br>and (("4237546"   "5046067"   "5069516"   "5083238"  <br>"5117067"   "5210374"   "5257122"   "5301050"  <br>"5303229"   "5315489"   "5361293"   "5396575"  <br>"5500753"   "5600469"   "5619498"   "5666487"                                                                                        | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/19 17:38                     |
|---|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------|
|   |        | "5680391"   "5715348"   "5724468"   "5828807"  <br>  "5892658"   "5894477"   "6038138").PN.)                                                                                                                                                                                                                                                                          |                                                                    |                                      |
| - | 1888   | ((back\$1 near3 plane\$1) or backplane\$1) same (serial\$4)                                                                                                                                                                                                                                                                                                           | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                       | 2004/04/19 17:38                     |
|   |        |                                                                                                                                                                                                                                                                                                                                                                       | IBM_TDB                                                            |                                      |
| - | 3      | (("4237546"   "5046067"   "5069516"   "5083238"     "5117067"   "5210374"   "5257122"   "5301050"     "5303229"   "5315489"   "5361293"   "5396575"     "5500753"   "5600469"   "5619498"   "5666487"     "5680391"   "5715348"   "5724468"   "5828807"     "5892658"   "5894477"   "6038138").PN.) and (((back\$1 near3 plane\$1) or backplane\$1) same (serial\$4)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/19 17:39                     |
| - | 0      | parallel-to-serail\$1 and serail-to-parallel\$1                                                                                                                                                                                                                                                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/19 17:40                     |
| - | 2638   | parallel-to-serial\$1 and serial-to-parallel\$1                                                                                                                                                                                                                                                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/19 17:40                     |
| - | 84     | (parallel-to-serial\$1 and serial-to-parallel\$1) and (sonet\$ or sdh\$1)                                                                                                                                                                                                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                       | 2004/04/19 17:42                     |
| - | 27     | (parallel-to-serial\$1 and serial-to-parallel\$1) and (sonet\$ or sdh\$1) and ((back\$1 near3 plane\$1) or backplane\$1)                                                                                                                                                                                                                                              | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;            | 2004/04/19 18:01                     |
| - | 3      | s/p\$1 and p/s\$1 and (sonet\$ or sdh\$1) and ((back\$1 near3 plane\$1) or backplane\$1)                                                                                                                                                                                                                                                                              | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/04/19 18:01                     |
| - | 100    | ((back\$1 near3 plane\$1) or backplane\$1) near3 (serial\$4) near3 (bus\$1 or switch\$3)                                                                                                                                                                                                                                                                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/19 18:05                     |
| - | 4      | (((back\$1 near3 plane\$1) or backplane\$1) near3 (serial\$4) near3 (bus\$1 or switch\$3)) and (sonet\$1 or sdh\$1)                                                                                                                                                                                                                                                   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/19 18:16                     |
| - | 30     | (((back\$1 near3 plane\$1) or backplane\$1) near3 (serial\$4)) and (sonet\$1 or sdh\$1)                                                                                                                                                                                                                                                                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB            | 2004/04/19 18:26                     |
| - | 2<br>0 | ("4703421"   "4821112").PN.<br>6597214.URPN.                                                                                                                                                                                                                                                                                                                          | USPAT<br>USPAT                                                     | 2004/04/19 18:21<br>2004/04/19 18:22 |

| - | 2      | ("6317439").PN.                                                  | USPAT;<br>US-PGPUB; | 2004/04/19 18:26  |
|---|--------|------------------------------------------------------------------|---------------------|-------------------|
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   |        |                                                                  | IBM_TDB             |                   |
| - | 8      | 370/376.ccls. and ((back\$1 near3 plane\$1) or backplane\$1)     | USPAT;              | 2004/04/19 18:46  |
|   |        | near10 (serial\$4)                                               | US-PGPUB;           |                   |
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   | _      | (1154.054.0411.1.11570.40.4011.1.11575.474.011.1.11500.40.0511.1 | IBM_TDB             | 2004/04/10 10 12  |
| - | 7      | ("5105421"   "5724343"   "5751710"   "5991295"                   | USPAT               | 2004/04/19 18:42  |
| _ | 204629 | "6157638"   "6353619"   "6424659").PN.<br>  hiroyuki.in.         | USPAT;              | 2004/04/19 19:00  |
| - | 207027 | THEOYUKI.III.                                                    | US-PGPUB;           | 2007/07/13 13.00  |
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   |        |                                                                  | IBM_TDB             |                   |
| . | 0      | hiroyuk-fujitai.in.                                              | USPAT;              | 2004/04/19 18:47  |
|   |        |                                                                  | US-PGPUB;           |                   |
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   | _      |                                                                  | IBM_TDB             |                   |
| - | 0      | hiroyuki-fujitai.in.                                             | USPAT;              | 2004/04/19 18:47  |
|   |        |                                                                  | US-PGPUB;           |                   |
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;<br>IBM_TDB |                   |
|   | 0      | hiroyuki-fujita.in.                                              | USPAT;              | 2004/04/19 18:48  |
| - | U      | Till Oyaki-Tujika.iii.                                           | US-PGPUB;           | 2001/07/13 10:70  |
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   |        |                                                                  | IBM_TDB             |                   |
| - | 40     | hiroyuki.in. and sonet\$1                                        | USPAT;              | 2004/04/19 18:48  |
|   |        |                                                                  | US-PGPUB;           |                   |
|   |        |                                                                  | EPO; JPO;           |                   |
| ] |        |                                                                  | DERWENT;            |                   |
|   | 45704  | trium multi im annul hitagah!                                    | IBM_TDB             | 2004/04/40 40:00  |
| - | 15731  | hiroyuki.in. and hitachi.as.                                     | USPAT;<br>US-PGPUB; | 2004/04/19 19:00  |
|   |        |                                                                  | EPO; JPO;           |                   |
| 1 |        |                                                                  | DERWENT;            |                   |
|   |        |                                                                  | IBM_TDB             |                   |
| - | 18     | hiroyuki.in. and hitachi.as. and (sonet\$1 or sdh\$1)            | USPAT;              | 2004/04/19 19:03  |
|   |        | ,                                                                | US-PGPUB;           |                   |
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   |        |                                                                  | IBM_TDB             |                   |
| - | 5      | simmons.in. and (sonet\$1 or sdh\$1)                             | USPAT;              | 2004/04/19 19:04  |
|   |        |                                                                  | US-PGPUB;           |                   |
| ] |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   | 96     | cisco.as. and (sonet\$1 or sdh\$1)                               | IBM_TDB<br>USPAT;   | 2004/04/19 19:05  |
| - | טכ     | Cisco.ds. and (someth of sumpt)                                  | US-PGPUB;           | 200 1/07/13 13:03 |
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   |        |                                                                  | IBM_TDB             |                   |
| - | 16     | cisco.as. and (sonet\$1 or sdh\$1) and (backplane\$1)            | USPAT;              | 2004/04/19 19:24  |
|   |        |                                                                  | US-PGPUB;           |                   |
|   |        |                                                                  | EPO; JPO;           |                   |
|   |        |                                                                  | DERWENT;            |                   |
|   |        | <u> </u>                                                         | IBM_TDB             | L                 |

| - | 8   | ("4967405"   "4998242"   "5040170"   "5185736"                                                                 | USPAT                  | 2004/04/19 19:21                      |
|---|-----|----------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------|
| - | 4   | "5315594"   "5497363"   "5848065"   "6160806").PN.<br>(("4967405"   "4998242"   "5040170"   "5185736"          | USPAT;                 | 2004/04/19 19:24                      |
|   |     | "5315594"   "5497363"   "5848065"   "6160806").PN.) and (backplane\$1)                                         | US-PGPUB;<br>EPO; JPO; |                                       |
|   |     | (backplanest)                                                                                                  | DERWENT;               |                                       |
|   |     |                                                                                                                | IBM_TDB                |                                       |
| - | 2   | ("4967405").PN.                                                                                                | USPAT;<br>US-PGPUB;    | 2004/04/30 15:09                      |
|   |     |                                                                                                                | EPO; JPO;              |                                       |
|   |     |                                                                                                                | DERWENT;               |                                       |
|   |     | (II.40.C7.40.5II\) PNI                                                                                         | IBM_TDB                | 2004/05/04 42:20                      |
| • | 2   | ("4967405").PN.                                                                                                | USPAT;<br>US-PGPUB;    | 2004/05/01 12:39                      |
|   |     |                                                                                                                | EPO; JPO;              |                                       |
|   | •   |                                                                                                                | DERWENT;               |                                       |
|   | 12  | //asiatt au /asaliastiantt nosu? anasifiatt nosu?                                                              | IBM_TDB                | 2004/05/01 14:06                      |
| - | 13  | ((asic\$1 or (application\$1 near3 specific\$1 near3<br>integrated\$1 near3 circuit\$1)) near10 (optical\$1 or | USPAT;<br>US-PGPUB;    | 2004/05/01 14:06                      |
|   |     | electrical\$1) near10 (card\$1 or module\$1)) and (sonet\$1 or                                                 | EPO; JPO;              |                                       |
|   |     | sdh\$1)                                                                                                        | DERWENT;               |                                       |
| _ | 13  | (asic\$1 or (application\$1 near3 specific\$1 near3                                                            | IBM_TDB<br>USPAT;      | 2004/05/01 14:09                      |
| - | 13  | (asics1 of (applications1 fiears specifics1 fiears<br>  integrated\$1 near3 circuit\$1)) near10 (optical\$1 or | US-PGPUB;              | 2004/05/01 14.05                      |
|   |     | electrical\$1) near10 (card\$1 or module\$1) and (sonet\$1 or                                                  | EPO; JPO;              |                                       |
|   |     | sdh\$1)                                                                                                        | DERWENT;               |                                       |
| _ | . 0 | (asic\$1 or (application\$1 near3 specific\$1 near3                                                            | IBM_TDB<br>USPAT;      | 2004/05/01 14:10                      |
| _ |     | integrated\$1 near3 circuit\$1)) near10 OC-\$3 near10 (card\$1                                                 | US-PGPUB;              | 2001/03/01 11:10                      |
|   |     | or module\$1) and (sonet\$1 or sdh\$1)                                                                         | EPO; JPO;              |                                       |
|   |     |                                                                                                                | DERWENT;               |                                       |
| _ | 2   | (asic\$1 or (application\$1 near3 specific\$1 near3                                                            | IBM_TDB<br>USPAT;      | 2004/05/01 14:10                      |
|   |     | integrated\$1 near3 circuit\$1)) near10 oc\$4 near10 (card\$1                                                  | US-PGPUB;              | ===================================== |
|   |     | or module\$1) and (sonet\$1 or sdh\$1)                                                                         | EPO; JPO;              |                                       |
|   |     |                                                                                                                | DERWENT;<br>IBM_TDB    |                                       |
| - | 5   | (asic\$1 or (application\$1 near3 specific\$1 near3                                                            | USPAT;                 | 2004/05/01 14:12                      |
|   |     | integrated\$1 near3 circuit\$1)) near10 ds\$4 near10 (card\$1                                                  | US-PGPUB;              |                                       |
|   |     | or module\$1) and (sonet\$1 or sdh\$1)                                                                         | EPO; JPO;<br>DERWENT;  |                                       |
|   |     |                                                                                                                | IBM_TDB                |                                       |
| - | 26  | (asic\$1 or (application\$1 near3 specific\$1 near3                                                            | USPAT;                 | 2004/05/01 14:31                      |
|   |     | integrated\$1 near3 circuit\$1)) near10 backplane\$ and                                                        | US-PGPUB;              |                                       |
|   |     | (sonet\$1 or sdh\$1)                                                                                           | EPO; JPO;<br>DERWENT;  |                                       |
|   |     |                                                                                                                | IBM_TDB                |                                       |
| - | 2   | ("5185736").PN.                                                                                                | USPAT;                 | 2004/05/01 14:22                      |
|   |     |                                                                                                                | US-PGPUB;<br>EPO; JPO; |                                       |
|   |     | ·                                                                                                              | DERWENT;               |                                       |
|   |     |                                                                                                                | IBM_TDB                |                                       |
| - | 1   | (("5185736").PN.) and (asic\$1 near20 (card\$1 or                                                              | USPAT;                 | 2004/05/03 10:55                      |
|   |     | module\$1))                                                                                                    | US-PGPUB;<br>EPO; JPO; |                                       |
|   |     |                                                                                                                | DERWENT;               |                                       |
|   |     | (///E40E736/I) PNI )                                                                                           | IBM_TDB                | 2004/05/04 44 55                      |
| - | 1   | (("5185736").PN.) and (asic\$1 near20 ds1\$1) and (asic\$1 near20 oc\$4)                                       | USPAT;<br>US-PGPUB;    | 2004/05/01 14:23                      |
|   |     | Παί 20 ουρτ)<br>                                                                                               | EPO; JPO;              |                                       |
|   |     |                                                                                                                | DERWENT;               |                                       |
|   |     |                                                                                                                | IBM_TDB                |                                       |

| • | 2 | ("6208648").PN.                 | USPAT;    | 2004/05/01 14:31 |
|---|---|---------------------------------|-----------|------------------|
|   |   | ,                               | US-PGPUB; |                  |
|   |   |                                 | EPO; JPO; |                  |
|   |   |                                 | DERWENT;  |                  |
|   |   |                                 | IBM_TDB   |                  |
| - | 1 | (("6208648").PN.) and asic\$1   | USPAT;    | 2004/05/01 14:31 |
|   |   |                                 | US-PGPUB; |                  |
|   |   |                                 | EPO; JPO; |                  |
|   |   |                                 | DERWENT;  |                  |
|   |   |                                 | IBM_TDB   |                  |
| - | 1 | (("5185736").PN.) and (asic\$1) | USPAT;    | 2004/05/01 14:38 |
|   |   |                                 | US-PGPUB; |                  |
|   |   |                                 | EPO; JPO; |                  |
|   |   |                                 | DERWENT;  |                  |
|   |   |                                 | IBM TDB   | 1                |

| L Number | Hits  | Search Text                              | DB                     | Time stamp       |
|----------|-------|------------------------------------------|------------------------|------------------|
| -        | 840   | fujita-hiroyuki.in.                      | USPAT;                 | 2003/12/12 17:24 |
|          |       | • • • • • • • • • • • • • • • • • • • •  | US-PGPUB;              |                  |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          |       |                                          | IBM_TDB                |                  |
| -        | 6     | fujita-hiroyuki.in. and sonet            | USPAT;                 | 2003/12/12 19:08 |
|          |       | ,                                        | US-PGPUB;              | ,                |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          |       |                                          | IBM_TDB                |                  |
| -        | 22    | sakai-kazutaka.in.                       | USPAT;                 | 2003/12/12 17:26 |
|          |       |                                          | US-PGPUB;              |                  |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          |       |                                          | IBM_TDB                |                  |
| -        | 2     | simmons-jane.in.                         | USPAT;                 | 2003/12/12 17:27 |
|          |       |                                          | US-PGPUB;              |                  |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          |       |                                          | IBM_TDB                |                  |
| -        | 0     | saleh-adel.in.                           | USPAT;                 | 2003/12/12 17:28 |
|          |       |                                          | US-PGPUB;              |                  |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          |       |                                          | IBM_TDB                |                  |
| -        | 276   | monet                                    | USPAT;                 | 2003/12/12 18:59 |
|          |       | <u>.</u>                                 | US-PGPUB;              |                  |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
| 1        |       |                                          | IBM_TDB                |                  |
| -        | 1475  | sonet.ab.                                | USPAT;                 | 2003/12/14 14:02 |
|          |       |                                          | US-PGPUB;              |                  |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          | •     |                                          | IBM_TDB                | 0000404040       |
| -        | 0     | sonet.ab. and cross-connect adj1 card\$1 | USPAT;                 | 2003/12/12 19:01 |
|          |       |                                          | US-PGPUB;              |                  |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          | 1 1 1 | constable and card#1                     | IBM_TDB                | 2002/42/42 40:04 |
| -        | 144   | sonet.ab. and card\$1                    | USPAT;                 | 2003/12/12 19:01 |
|          |       |                                          | US-PGPUB;<br>EPO; JPO; |                  |
|          |       |                                          | DERWENT;               |                  |
|          |       |                                          | IBM_TDB                |                  |
| _        | 0     | ip-sonet                                 | USPAT;                 | 2003/12/12 19:01 |
|          |       | - IP 55.150                              | US-PGPUB;              | 2000/12/12 17.01 |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          |       |                                          | IBM_TDB                |                  |
| -        | 1     | sonet-ip                                 | USPAT;                 | 2003/12/12 19:02 |
|          | •     |                                          | US-PGPUB;              |                  |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
|          |       |                                          | IBM_TDB                |                  |
| -        | 3     | ip-over-sonet or ip-o-sonet              | USPAT;                 | 2003/12/12 19:03 |
|          |       |                                          | US-PGPUB;              | , ,              |
|          |       |                                          | EPO; JPO;              |                  |
|          |       |                                          | DERWENT;               |                  |
| <u> </u> |       |                                          | IBM_TDB                |                  |
| ·        |       |                                          | <del></del>            |                  |

| - | 4    | ethernet-over-sonet                                    | USPAT;            | 2003/12/12 19:03 |
|---|------|--------------------------------------------------------|-------------------|------------------|
|   | • [  |                                                        | US-PGPUB;         | , , , ,          |
|   |      |                                                        | EPO; JPO;         |                  |
|   |      |                                                        | DERWENT;          |                  |
|   | Ì    |                                                        | IBM_TDB           |                  |
| - | 3    | 5896387.URPN.                                          | USPAT             | 2003/12/12 19:06 |
| - | 9    | "6047002"                                              | USPAT;            | 2003/12/12 19:08 |
|   |      |                                                        | US-PGPUB;         |                  |
|   |      |                                                        | EPO; JPO;         |                  |
|   |      |                                                        | DERWENT;          |                  |
|   |      |                                                        | IBM_TDB           |                  |
| - | 2    | ("6047002").PN.                                        | USPAT;            | 2003/12/12 19:14 |
|   |      |                                                        | US-PGPUB;         |                  |
|   |      |                                                        | EPO; JPO;         |                  |
|   |      |                                                        | DERWENT;          |                  |
|   |      | /!!44C0724!!   !!E2E420E!!   !!E220424!!   !!E204200!! | IBM_TDB           | 2002/12/12 10:00 |
| - | 14   | ("4468734"   "5251205"   "5339421"   "5394389"         | USPAT             | 2003/12/12 19:09 |
|   |      | "5423002"   "5490252"   "5623696"   "5632016"          |                   |                  |
|   | •    | "5642337"   "5687393"   "5761516"   "5878265"          |                   |                  |
|   | 5    | "5881248"   "5896383").PN.<br>6047002.URPN.            | USPAT             | 2003/12/12 19:11 |
| _ | 9    | atm-sonet                                              | USPAT;            | 2003/12/12 19:14 |
| _ |      |                                                        | US-PGPUB;         | 2003/12/12 13.11 |
|   |      |                                                        | EPO; JPO;         |                  |
|   |      |                                                        | DERWENT;          |                  |
|   | ;    |                                                        | IBM_TDB           |                  |
| _ | 1003 | atm adj5 sonet                                         | USPAT;            | 2003/12/12 19:15 |
|   |      |                                                        | US-PGPUB;         |                  |
|   |      |                                                        | EPO; JPO;         |                  |
|   |      |                                                        | DERWENT;          |                  |
|   |      |                                                        | IBM_TDB           |                  |
| - | 714  | atm adj3 sonet                                         | USPAT;            | 2003/12/12 19:15 |
|   |      |                                                        | US-PGPUB;         |                  |
|   |      |                                                        | EPO; JPO;         |                  |
|   |      |                                                        | DERWENT;          |                  |
|   |      | l                                                      | IBM_TDB           | 0000404040       |
| - | 46   | atm adj1 over adj1 sonet                               | USPAT;            | 2003/12/12 19:20 |
|   |      |                                                        | US-PGPUB;         |                  |
|   |      |                                                        | EPO; JPO;         |                  |
|   |      |                                                        | DERWENT;          |                  |
|   | 4.4  | ethernet adj1 over adj1 sonet                          | IBM_TDB<br>USPAT; | 2003/12/12 19:20 |
| - | 14   | etriernet auji over auji sonet                         | US-PGPUB;         | 2003/12/12 19.20 |
|   |      |                                                        | EPO; JPO;         |                  |
|   |      |                                                        | DERWENT;          |                  |
|   |      |                                                        | IBM_TDB           |                  |

|       |                      | En          |           |          |       |                  |
|-------|----------------------|-------------|-----------|----------|-------|------------------|
| - 165 | ("4201889"   "431072 |             |           |          | USPAT | 2003/12/14 13:40 |
|       | "4554659"   "4565903 |             |           |          |       |                  |
|       | "4736364"   "4748658 |             |           |          |       |                  |
|       | "4896319"   "4916690 |             |           | ľ        |       |                  |
|       | "4991204"   "4993104 |             |           | l        |       |                  |
|       | "5048081"   "5058104 | •           | •         |          |       |                  |
|       | "5089954"   "5091903 | •           | •         |          |       |                  |
|       | "5163057"   "5168492 |             |           |          |       |                  |
|       | "5204857"   "5216669 |             |           |          |       |                  |
|       | "5231633"   "5233607 | •           | •         |          |       |                  |
|       | "5251255"   "5253247 |             |           |          |       |                  |
|       | "5258979"   "5268895 | •           | •         |          |       |                  |
|       | "5278889"   "5282244 |             |           |          |       |                  |
|       | "5306318"   "5311509 |             |           |          |       |                  |
| 1     | "5327421"   "5327433 |             |           |          |       |                  |
|       | "5345443"   "5345445 |             |           |          |       |                  |
|       | "5363433"   "5365524 |             |           |          |       |                  |
|       | "5375124"   "5377186 |             |           |          |       |                  |
|       | "5392402"   "5394393 |             |           |          |       |                  |
|       | "5418783"   "5420857 |             |           | <u> </u> |       |                  |
|       | "5422882"   "5425090 |             |           |          |       |                  |
|       | "5428609"   "5434852 | •           | •         | <u> </u> |       |                  |
| İ     | "5444713"   "5446738 |             |           |          |       |                  |
| i     | "5454034"   "5457684 |             |           |          |       |                  |
|       | "5463621"   "5473677 |             |           |          |       |                  |
|       | "5479401"   "5479402 | •           | •         |          |       |                  |
|       | "5485455"   "5495484 | •           | •         |          |       |                  |
|       | "5509010"   "5509123 |             |           |          |       |                  |
|       | "5521910"   "5522042 | •           | •         |          |       |                  |
|       | "5539698"   "5539815 |             |           | <u> </u> |       |                  |
|       | "5541918"   "5541926 |             |           |          |       |                  |
|       | "5548580"   "5550819 |             |           |          |       |                  |
|       | "5566173"   "5568475 | •           | •         | •        |       |                  |
|       | "5579311"   "5587999 |             | •         | •        |       |                  |
|       | "5600643"   "5621728 | •           | •         | •        |       |                  |
|       | "5629930"   "5629938 | •           | •         | 1        |       |                  |
|       | "5640446"   "5661725 | •           | •         |          |       |                  |
|       | "5680390"   "5703876 | •           | •         |          |       |                  |
|       | "5719863"   "5751706 | :           |           | <u> </u> |       |                  |
|       | "5805568"   "5825780 |             |           |          |       |                  |
|       | "5892764"   "5920412 | " "5920562" | "5940491" | l        |       |                  |
|       | "5991301").PN.       |             |           |          |       |                  |

| "4954659"   "495690"   "496590"   "4796158"   "473639"   DER, VERTER   WAS 1916   POP.                                                                                                                               |   |     |                                                               |           |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|---------------------------------------------------------------|-----------|------------------|
| "4736364"   "4748688"   "4823338"   "4833955"   EPO, JPO;   PO; BORNENT;   "4993104"   "4993104"   "5001584"   "5081891"   IBM_TDB   PO; BORNENT;   "5081801"   "508104"   "506121"   "5081801"   "508191"   IBM_TDB   PO; BORNENT;   "51616669"   "5101404"   "5115431"   IBM_TDB   PO; BORNENT;   "5161669"   "5218602"   "5231631"   "5236387"   "5246897"   "5251631"   "5236397"   "5246897"   "5255266"   "5258752"   "5258752"   "5256973"   "5255266"   "5258752"   "5258752"   "5256973"   "5265266"   "5258752"   "5256973"   "5265266"   "5258752"   "5266973"   "5266985"   "5271697"   "5278899"   "5262244"   "5265266"   "5258752"   "5266973"   "5266985"   "5271697"   "5278899"   "5262244"   "5265266"   "5275304"   "5278899"   "5262244"   "5265266"   "5275304"   "5278899"   "5262244"   "5265266"   "5275304"   "5278899"   "5262244"   "5265266"   "5275304"   "5278899"   "5262244"   "5265266"   "5275304"   "5278899"   "5262244"   "52674689"   "5262669"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "5276697"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "52766979"   "5                                                                                                                               | - | 28  | (("4201889"   "4310727"   "4348554"   "4453247"               | USPAT;    | 2003/12/14 13:40 |
| "4736364" "4748658"   "4748658"   "4823338"   "4833555"   EPO, JPO;   "4993104"   "4993104"   "4993104"   "50003584"   "5018191"   IBM_TDB   "5081954"   "5081903"   "5101404"   "5115431"   IBM_TDB   "5089954"   "5101404"   "5115431"   "5163057"   "5186669"   "5218602"   "521631"   "5236577"   "5163669"   "5218602"   "521631"   "5236578"   "5286777"   "5255766"   "5285757"   "5286797"   "528698958"   "52710170"   "5274680"   "5274880"   "527421"   "5227421"   "5227437"   "5235766"   "5285757"   "5286977"   "53669895"   "5271010"   "5274680"   "5274889"   "531509"   "5315698"   "527421"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"   "5227431"                                                                                                                                  |   |     | "4554659"   "4565903"   "4683563"   "4730312"                 | US-PGPUB; |                  |
| "4996319"   "4916690"   "4926416"   "4985889"   DERWINT;   BM_TDB   "9048081"   "5058104"   "5057123"   "50484667"   IBM_TDB   "5058104"   "5057123"   "50484667"   IBM_TDB   "5058104"   "5057123"   "50484667"   "5163057"   "5168492"   "5185743"   "5133110"   "529552669"   "52216531"   "529525266"   "5221631"   "529525267"   "522525266"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"   "522525267"                                                                                                                                |   |     |                                                               | EPO; JPO; |                  |
| "-991204"   "4993104"   "50013584"   "5018191"   IBM_TDB   "5048081"   "5061003"   "5101404"   "5115431"   "5163057"   "5166699"   "51161404"   "5115431"   "524657"   "52166691"   "5221602"   "5221631"   "5231635"   "5233607"   "5238602"   "5221631"   "5231635"   "5233607"   "5238602"   "5221631"   "5231655"   "5253247"   "5252566"   "5238752"   "528897"   "522644"   "528441"   "5291479"   "5306318"   "531509"   "5317562"   "5323389"   "537421"   "5374333"   "5329380"   "5333389"   "537421"   "5374333"   "5339508"   "5333918"   "5345442"   "5345445"   "536441"   "5384771"   "5384400"   "5364331"   "5365242"   "5367566"   "5375504"   "5375124"   "5377186"   "5345446"   "53575104"   "536202"   "53943933"   "5394938"   "544701"   "5418783"   "45406857"   "4540858"   "4540916"   "5448828"   "45405990"   "4546668"   "4540669"   "5428609"   "5446952"   "544981"   "5440663"   "5446713"   "5446738"   "5452297"   "545381"   "5446734"   "5457684"   "5541669"   "5463620"   "5463621"   "5473677"   "5473679"   "5473379"   "5477377   "5529101"   "592123"   "551318"   "554152"   "5541918"   "5526414"   "5556415"   "5566444"   "55649391"   "55969381"   "5539884"   "5541918"   "5541926"   "5570368"   "5570399"   "5560446"   "5661725"   "5566349"   "5673262"   "5600647"   "5609387"   "5563391"   "6563391"   "5609301"   "5501912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "55091912"   "56091912"   "56091912"   "56091912                                                                                                                               |   |     |                                                               |           |                  |
| "S048081"   "S058104"   "S057122"   "S0648667"   "S163057"   "S163057"   "S168492"   "S185742"   "S133110"   "S163057"   "S168492"   "S185742"   "S133110"   "S2746887"   "S21633"   "S231633"   "S2316338"   "S2316338"   "S231748"   "S375160"   "S337304"   "S337316"   "S373761"   "S373762"   "S473658"   "S426636"   "S42860"   "S43686"   "S42860"   "S43686"   "S42860"   "S43686"   "S436631"   "S446631"   "S446636"   "S448663"                                                                                                                               |   |     | , , , , , , , , , , , , , , , , , , , ,                       | 1         |                  |
| "5089954"   "5091903"   "51101404"   "5115431"     "516057"   "516669"   "5185743"   "519110"     "5204857"   "5216669"   "5218602"   "5231631"     "521633"   "523067"   "5235333"   "5244178"     "521255"   "5253247"   "5255266"   "5258752"     "528979"   "526889"   "5271010"   "5274680"     "528979"   "526889"   "5282441"   "5281479"     "5306318"   "5311509"   "5317562"   "5323389"     "53274211"   "5327433"   "53293908"   "5339318"     "5345443"   "5345445"   "5345446"   "53357510"     "5345433"   "5345451"   "5367566"   "333504"     "5375124"   "5377166"   "5387471"   "5384840"     "539200"   "5393939"   "541701"     "5418783"   "5420857"   "5420858"   "5420916"     "542282"   "4525909"   "4546636"   "5248607"     "542282"   "4547677"   "5473679"   "5473572"     "547404713"   "5447678"   "5473679"   "5473572"     "54854951"   "5476478"   "547669"   "5476327"     "54854951"   "5477402"   "5479499"   "5483527"     "54854951"   "55959884"   "5506844"     "55000643"   "552002"   "5526414"   "55300644"     "5531910"   "5522042"   "5526414"   "5570309"     "5531910"   "5520912"   "5513178"   "5519707"     "5531910"   "55209113"   "5513178"   "5519707"     "5531911"   "5586981"   "5550816"   "5539884"     "5541918"   "5541926"   "5544152"   "5544161"     "568030"   "5508019"   "5508019"   "5506044"     "5500643"   "5508019"   "5508019"   "5506040"     "5500643"   "560879"   "550898"   "656210"     "5640446"   "6661725"   "5666499"   "5673262"     "5800568"   "5805081"   "5508090"   "656210"     "5640446"   "6661725"   "5666499"   "5710769"     "5710863"   "571076"   "5780702"   "5710769"     "59913017.PN.) and sonet     "605542"   "6134238") PN.     "674797654"   "482747"   "4998242"   "5001708"   USPAT   USPAT     "605542"   "6134238") PN.     "674797654"   "482747"   "4998242"   "5001708"   USPAT                                                                                                                                   |   |     | , , , , , , , , , , , , , , , , , , , ,                       | 1511_150  |                  |
| "5163057"   "5168492"   "5185743"   "5193110"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "\$204857"   "\$216669"   "\$218602"   "\$231631"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "\$231633"   "\$233607"   "\$239539"   "\$249178"       "\$25255"   "\$25257"   "\$252566"   "\$287572"       "\$2528979"   "\$268895"   "\$271610"   "\$274680"       "\$278889"   "\$28244"   "\$285441"   "\$291479"       "\$306318"   "\$311509"   \$317562"   "\$323389"       "\$327421"   "\$227433"   \$329308"   "\$339318"       "\$334343"   "\$345445"   "\$345446"   "337510"       "\$363433"   "\$365524"   "\$3373566"   "\$337304"       "\$375124"   "\$377186"   "\$384771"   "\$384840"       "\$392402"   "\$3934393"   "\$344701"       "\$418783"   "\$426057"   "\$426636"   "\$414701"       "\$418783"   "\$426057"   "\$4276388"   "\$49016"       "\$422882"   "\$425090"   "\$426636"   "\$428607"       "\$422882"   "\$425090"   "\$426636"   "\$436800"       "\$444713"   "\$446738"   "\$5452297"   "\$435381"       "\$5454034"   "\$547684"   "\$5507472"   "\$4363620"       "\$4663621"   "\$479402"   "\$5479492"   "\$4363620"       "\$548555"   "\$4969484"   "\$540742"   "\$506844"       "\$509101"   "\$559123"   "\$513178"   "\$519707"       "\$551910"   "\$522042"   "\$526414"   "\$5338106"       "\$533968"   "\$539815"   "\$539816"   "\$539884"       "\$549401"   "\$5502042"   "\$526414"   "\$533106"       "\$5539689"   "\$539815"   "\$550964"   "\$550930"       "\$566173"   "\$550819"   "\$550964"   "\$567362"       "\$666373"   "\$568738"   "\$667326"       "\$600643"   "\$560647"   "\$560640"       "\$600643"   "\$560728"   "\$666349"   "\$673262"       "\$680309"   "\$753876"   "\$867702"   "\$71069"       "\$5719863"   "\$527870"   "\$670720"   "\$71069"       "\$593301"   "\$587999"   "\$592477"   "\$600404"       "\$693276"   "\$6663728"   "\$667306"       "\$6005242"   "\$526359"   "\$667306"       "\$6005242"   "\$134238")PN.  - ("\$4797654"   "\$827477"   "\$992652"   "\$940491"       "\$993301",PN.) and sonet  - ("\$436890"   "\$526359"   "\$877000"   "\$71069"       "\$5933101",PN.) and sonet  - ("\$436890"   "\$526359"   "\$872780"   "\$970136"       "\$6055242"   "\$134238")PN.  - ("\$4797654"   "\$827477"   "4998242"   "\$001708"       "\$9003127/14 14:13  2003/12/14 15:08                                                  |   |     |                                                               |           | ,                |
| "\$251255"   "\$253247"   "\$255266"   \$258752"   "\$258979"   "\$268895"   "\$268895"   "\$274680"   "\$278897"   "\$268895"   "\$2517010"   "\$274680"   "\$306318"   "\$311509"   "\$317562"   "\$329308"   "\$327421"   "\$327433"   "\$329308"   "\$339318"   "\$345445"   "\$345445"   "\$345446"   "\$3357510"   "\$363433"   "\$345445"   "\$345460"   "\$3357510"   "\$3930402"   "\$377186"   "\$384771"   "\$384840"   "\$392402"   "\$393933"   "\$349398"   "\$41701"   "\$418783"   "\$420857"   "\$420858"   "\$420916"   "\$428609"   "\$428609"   "\$426636"   "\$428607"   "\$428609"   "\$434852"   "\$43981"   "\$440563"   "\$444713"   "\$446738"   "\$452297"   "\$43981"   "\$440663"   "\$463621"   "\$473677"   "\$473679"   "\$475371"   "\$454901"   "\$5473677"   "\$473679"   "\$477537"   "\$479401"   "\$579902"   "\$5747995"   "\$488527"   "\$5396910"   "\$590012"   "\$520412"   "\$506844"   "\$509010"   "\$520012"   "\$526414"   "\$533106"   "\$539698"   "\$539988"   "\$539816"   "\$539884"   "\$541818"   "\$541926"   "\$544152"   "\$544161"   "\$548560"   "\$550819"   "\$550914"   "\$563939"   "\$566173"   "\$569388"   "\$539816"   "\$539884"   "\$579311"   "\$587999"   "\$592477"   "\$600640"   "\$64046"   "\$61278"   "\$623981"   "\$63980"   "\$680390"   "\$629388"   "\$63980"   "\$636210"   "\$680390"   "\$629388"   "\$63980"   "\$636210"   "\$680390"   "\$703876"   "\$708702"   "\$710769"   "\$719863"   "\$751706"   "\$798613"   "\$860751"   "\$892764"   "\$920412"   "\$920562"   "\$940491"   "\$995740"   "\$520412"   "\$920562"   "\$940491"   "\$995740"   "\$520412"   "\$920562"   "\$940491"   "\$9991301"),N), and sonet or of cross adj1 connect)) same module) and ((cross-connect or (cross adj1 connect)) same module) and (cross-connect or (cross-connect or (cross-connect or (cross-connect or (cross |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "\$25889"   "\$268895"   "\$271010"   "\$274680"   "\$278889"   "\$306318"   "\$311509"   "\$317562"   "\$323389"   "\$306318"   "\$311509"   "\$317562"   "\$323389"   "\$3363433"   "\$3365324"   "\$365546"   "\$337510"   "\$363433"   "\$365524"   "\$3657566"   "\$373504"   "\$375124"   "\$377166"   "\$384771"   "\$384840"   "\$392402"   "\$394393"   "\$394398"   "\$414701"   "\$418783"   "\$4280857"   "\$420958"   "\$429016"   "\$428822"   "\$425090"   "\$426636"   "\$428607"   "\$4288282"   "\$425090"   "\$434981"   "\$440563"   "\$4348034"   "\$457684"   "\$461669"   "\$438981"   "\$4394011"   "\$479402"   "\$479495"   "\$483527"   "\$4594011"   "\$479402"   "\$479495"   "\$483527"   "\$530998"   "\$539313"   "\$539413"   "\$550844"   "\$509010"   "\$5509123"   "\$513178"   "\$519707"   "\$521910"   "\$552042"   "\$526414"   "\$533106"   "\$539998"   "\$55933815"   "\$5593816"   "\$539884"   "\$549181"   "\$541926"   "\$544152"   "\$544161"   "\$548560"   "\$660643"   "\$660643"   "\$5606439"   "\$627836"   "\$660643"   "\$621728"   "\$623491"   "\$627836"   "\$680390"   "\$703876"   "\$503980"   "\$5736210"   "\$680390"   "\$703876"   "\$708702"   "\$710769"   "\$791863"   "\$551706"   "\$798613"   "\$627836"   "\$680390"   "\$503876"   "\$503702"   "\$710769"   "\$791863"   "\$751706"   "\$796613"   "\$600640"   "\$600643"   "\$621728"   "\$663490"   "\$573262"   "\$680390"   "\$703876"   "\$708702"   "\$710769"   "\$791863"   "\$751706"   "\$796613"   "\$600640"   "\$600643"   "\$621728"   "\$66349"   "\$573262"   "\$680390"   "\$703876"   "\$867502"   "\$867511"   "\$991301"),PN), and sonet  - 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |     |                                                               |           |                  |
| "5278889"   "5282244"   "5285441"   "5291479"   "5306318"   "531509"   "5317562"   "532389"   "5327421"   "5327433"   "5329308"   "5339318"   "5345443"   "5345445"   "5345446"   "5337510"   "5363433"   "5345445"   "5345466"   "5337510"   "5375124"   "5377186"   "5384771"   "5384840"   "5392402"   "5393433"   "5349398"   "5414701"   "5418783"   "5420857"   "5420858"   "5420916"   "5422882"   "5425090"   "5426636"   "542667"   "5422882"   "5425090"   "5426636"   "5428607"   "54248009"   "5436528"   "5422916"   "5444713"   "5446738"   "5452297"   "5433981"   "54544304"   "5576684"   "5466669"   "546620"   "4663621"   "5473677"   "5473679"   "5473579"   "5479401"   "5479402"   "5546788"   "54663620"   "5485455"   "55796123"   "5513178"   "55106844"   "5509010"   "5509123"   "5513178"   "55106844"   "550910"   "5522042"   "55266414"   "5533166"   "5539698"   "5539815"   "5539816"   "5539884"   "5548580"   "5550819"   "5550914"   "55068441   "5560173"   "556475"   "5570369"   "5570399"   "5566173"   "556475"   "570369"   "5570399"   "5560173"   "556475"   "5624798"   "5570369"   "5600643"   "5621728"   "5623491"   "5627836"   "5600643"   "5621728"   "5623491"   "5620640"   "5600643"   "5621728"   "5623491"   "5627836"   "5600643"   "5621728"   "5623491"   "5670640   "5600643"   "5621728"   "5623491"   "567026"   "5800566"   "5825780"   "587020"   "5710769"   "5719863"   "5751706"   "5796813"   "8802045"   "5805568"   "825780"   "587020"   "8701769"   "5719863"   "5525398"   "5867502"   "8867511"   "5892564"   "5225780"   "5867502"   "8960511   USPAT   USPAT   USPAT   USPAT   USPAT   USPAT   2003/12/14 14:13  2003/12/14 14:13  2003/12/14 14:13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "\$306318"   "\$311509"   "\$317562"   "\$323389"   "\$37421"   "\$327433"   "\$329308"   "\$339318"   "\$345443"   "\$345445"   "\$345466"   "\$357510"   "\$363433"   "\$365524"   "\$365526"   "\$373504"   "\$392402"   "\$394393"   "\$394398"   "\$414701"   "\$418783"   "\$420857"   "\$420858"   "\$420916"   "\$4228609"   "\$4394085"   "\$426636"   "\$426016"   "\$422882"   "\$4250857"   "\$426636"   "\$426016"   "\$444713"   "\$46738"   "\$45297"   "\$43981"   "\$444713"   "\$46738"   "\$45297"   "\$43981"   "\$45463621"   "\$479402"   "\$479495"   "\$43527"   "\$45463621"   "\$479402"   "\$479495"   "\$43527"   "\$486455"   "\$495484"   "\$55004742"   "\$506844"   "\$509010"   "\$509123"   "\$513178"   "\$519707"   "\$521910"   "\$52042"   "\$526414"   "\$533106"   "\$539988"   "\$568175"   "\$550014"   "\$563939"   "\$566173"   "\$568475"   "\$550014"   "\$563939"   "\$5660643"   "\$621728"   "\$56645399"   "\$577039"   "\$579311"   "\$52938"   "\$5350014"   "\$563939"   "\$600643"   "\$621728"   "\$663499"   "\$7306640"   "\$680390"   "\$703876"   "\$708702"   "\$710769"   "\$791363"   "\$7571706"   "\$798613"   "\$800045"   "\$892764"   "\$920412"   "\$920562"   "\$673262"   "\$8805568"   "\$825780"   "\$687502"   "\$673262"   "\$991301"),PN), and sonet  10 ("\$436890"   "\$525398"   "\$872780"   "\$901136"   "\$991301"),PN), and sonet  10 ("\$436890"   "\$523639"   "\$872780"   "\$901136"   "\$991301"),PN), and sonet  10 ("\$436890"   "\$523659"   "\$872780"   "\$901136"   "\$991301"),PN), and sonet  10 ("\$436890"   "\$523659"   "\$872780"   "\$901136"   "\$991301",PN), and sonet  10 ("\$436890"   "\$523659"   "\$872780"   "\$901136"   "\$991301",PN), and sonet  2003/12/14 14:13                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "5327421"   "5327433"   "5329308"   "5339318"     "5345443"   "53454454"   "53454646"   "5375510"     "5363433"   "5365524"   "5367566"   "5373504"     "3375124"   "5377186"   "5384771"   "5384840"     "5327821"   "5377186"   "5384771"   "5384840"     "5422882"   "5420900"   "5420636"   "5420916"     "5422882"   "54250900"   "5426636"   "5426607"     "5428609"   "5434852"   "5446638"   "5420916"     "5446731"   "5446738"   "5452636"   "5440563"     "5443731"   "5446738"   "5452636"   "543620"     "5435021"   "5473677"   "5473679"   "547537"     "54754031"   "5479402"   "5473679"   "5477537"     "5479401"   "5479402"   "5504742"   "5508441"     "559010"   "5590123"   "5513178"   "5519707"     "5521910"   "5522042"   "5526414"   "5533166"     "5539698"   "5539815"   "5539816"   "5539884"     "5548580"   "55519319"   "5559147"   "5600400"     "5548580"   "55519319"   "5559147"   "5600640"     "5560473"   "556475"   "5563399"   "5567362"     "5680390"   "55629381"   "5663499"   "5673262"     "5680390"   "55629381"   "5663491"   "563320"     "5569330"   "55629381"   "5663491"   "5673262"     "5860390"   "55629381"   "5663491"   "5673262"     "5860390"   "55039381"   "5796813"   "5802045"     "5893076"   "5703876"   "5796813"   "5802045"     "58932764"   "5920412"   "5798813"   "5802045"     "58932764"   "5920412"   "5798820"   "58040491"     "5991301"),PN.) and sonet     -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |     |                                                               |           |                  |
| "5345443"   "5345445"   "5345756"   "537510"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |     | "5306318"   "5311509"   "5317562"   "5323389"                 |           |                  |
| "5363433"   "5365524"   "5367566"   "537350"   "5375124"   "5377186"   "5347711"   "5384840"   "5392402"   "5394393"   "52408840"   "5418783"   "5420897"   "5420636"   "542800"   "5422880"   "5425090"   "5426636"   "5428607"   "5422880"   "5434952"   "5434981"   "5440563"   "5444713"   "5457684"   "5461669"   "5463600"   "5463621"   "5473677"   "5473679"   "5473377"   "5479401"   "5479402"   "5473679"   "5473377"   "5479401"   "5591132"   "5513178"   "5519707"   "552910"   "5522042"   "5526414"   "5533816"   "5539698"   "5539818"   "5539816"   "5539884"   "5548580"   "55591819"   "55504142"   "5560444"   "5548580"   "55591819"   "55501418"   "5544151"   "5548580"   "5559190"   "55501418"   "5564152"   "5564152"   "55641918"   "55504192"   "55503681"   "5539884"   "55739884"   "5573981"   "5564044"   "556173"   "5564044"   "556173"   "5564046"   "556173"   "5564046"   "556173"   "5564046"   "566173"   "5564046"   "566173"   "5663495"   "5573680"   "5573086"   "5579391"   "55869398"   "5579398"   "577039"   "577090"   "5600449"   "566173"   "5663495"   "5663495"   "5673262"   "5680390"   "57708072"   "57710769"   "57986398"   "57719663"   "57719663"   "57719663"   "57719663"   "57719663"   "57719663"   "57719663"   "5781706"   "5798812"   "5802045"   "5805568"   "58256359"   "5807802"   "57710769"   "599130"),PN.) and sonet sonet ab. and (tributaryst same module) and (oc\$5 or sts\$4)   USPAT   US.PGPUB;   EPO; JPO; DERWENT; IBM_TDB   USPAT   US.PGPUB;   US.PGPUB;   US.PGPUB;   US.PGPUB                                                                                                                             |   |     | "5327421"   "5327433"   "5329308"   "5339318"                 |           |                  |
| "\$375124"   "\$377186"   "\$384771"   "\$384840"   "\$3932402"   "\$394393"   "\$394398"   "\$414701"   "\$418783"   "\$420857"   "\$420858"   "\$420916"   "\$422882"   "\$420857"   "\$420858"   "\$420916"   "\$422802"   "\$43852"   "\$434981"   "\$440633"   "\$443609"   "\$434852"   "\$434981"   "\$440633"   "\$4434713"   "\$446738"   "\$461669"   "\$463620"   "\$436434"   "\$457684"   "\$461669"   "\$463620"   "\$436451"   "\$473677"   "\$473679"   "\$477537"   "\$479401"   "\$479402"   "\$473679"   "\$473573"   "\$479401"   "\$479402"   "\$513178"   "\$519327"   "\$485455"   "\$495484"   "\$504724"   "\$506444"   "\$509010"   "\$509123"   "\$513178"   "\$513106"   "\$5339698"   "\$539918"   "\$553916"   "\$5339884"   "\$541918"   "\$541926"   "\$5449161"   "\$5339884"   "\$541918"   "\$549564"   "\$559016"   "\$5539884"   "\$541918"   "\$549548"   "\$5591916"   "\$5593916"   "\$563399"   "\$5548580"   "\$559192"   "\$559014"   "\$550399"   "\$5633991"   "\$561738"   "\$559391"   "\$559391"   "\$563399"   "\$6293930"   "\$562728"   "\$5503491"   "\$627386"   "\$6604346"   "\$661725"   "\$6663494"   "\$567322"   "\$680390"   "\$703876"   "\$708702"   "\$710769"   "\$719863"   "\$751706"   "\$796813"   "\$802045"   "\$8892764"   "\$825780"   "\$6663494"   "\$667322"   "\$8892564"   "\$825780"   "\$6866349"   "\$667322"   "\$8892564"   "\$825780"   "\$6866349"   "\$67322"   "\$8892564"   "\$825780"   "\$866390"   "\$5663491"   "\$989364"   "\$5250391"   "\$867302"   "\$710769"   "\$9892564"   "\$920412"   "\$920562"   "\$940491"   "\$991301").PN.) and sonet  10 sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)    6 ("\$436890"   "\$526359"   "\$872780"   "\$901136"   "\$979764"   "\$134238").PN.  2 113 370/907.ccis.  10 \$742640"   "4454601"   "4498186"   "4719624"   USPAT USPAT USPAT 2003/12/14 14:13 USPAT 2003/12/14 15:08                                                                                                                                                                                                                                                        |   |     | "5345443"   "5345445"   "5345446"   "5357510"                 |           | •                |
| "\$392402"   "\$394393"   "\$394398"   "\$414701"   "\$418783"   "\$420859"   "\$420858"   "\$420916"   "\$422882"   "\$425090"   "\$426636"   "\$428607"   "\$428609"   "\$434852"   "\$454636"   "\$42860"   "\$428609"   "\$434852"   "\$453981"   "\$450563"   "\$4484713"   "\$446738"   "\$45297"   "\$453981"   "\$454304"   "\$457684"   "\$467367"   "\$473679"   "\$477537"   "\$479401"   "\$479402"   "\$7479402"   "\$5483527"   "\$485455"   "\$499401"   "\$5794949"   "\$519707"   "\$521910"   "\$522042"   "\$552614"   "\$533106"   "\$539698"   "\$539815"   "\$539816"   "\$533106"   "\$539698"   "\$559912"   "\$554614"   "\$533106"   "\$5549361"   "\$554926"   "\$554614"   "\$5339884"   "\$556173"   "\$554936"   "\$554916"   "\$539884"   "\$556173"   "\$5589591"   "\$559914"   "\$560640"   "\$600643"   "\$567931"   "\$592477"   "\$600640"   "\$600643"   "\$621728"   "\$523981"   "\$632200"   "\$640466"   "\$661725"   "\$663491"   "\$632201"   "\$680390"   "\$629388"   "\$635980"   "\$6362010"   "\$680390"   "\$703876"   "\$708702"   "\$710769"   "\$719863"   "\$751706"   "\$796813"   "\$802045"   "\$993030"   "\$703876"   "\$900812"   "\$802045"   "\$993030"   "\$6132238").PN.  - 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |     | "5363433"   "5365524"   "5367566"   "5373504"                 |           |                  |
| "\$392402"   "\$394393"   "\$394398"   "\$414701"   "\$418783"   "\$420859"   "\$420858"   "\$420916"   "\$422882"   "\$425090"   "\$426636"   "\$428607"   "\$428609"   "\$434852"   "\$454636"   "\$42860"   "\$428609"   "\$434852"   "\$453981"   "\$450563"   "\$4484713"   "\$446738"   "\$45297"   "\$453981"   "\$454304"   "\$457684"   "\$467367"   "\$473679"   "\$477537"   "\$479401"   "\$479402"   "\$7479402"   "\$5483527"   "\$485455"   "\$499401"   "\$5794949"   "\$519707"   "\$521910"   "\$522042"   "\$552614"   "\$533106"   "\$539698"   "\$539815"   "\$539816"   "\$533106"   "\$539698"   "\$559912"   "\$554614"   "\$533106"   "\$5549361"   "\$554926"   "\$554614"   "\$5339884"   "\$556173"   "\$554936"   "\$554916"   "\$539884"   "\$556173"   "\$5589591"   "\$559914"   "\$560640"   "\$600643"   "\$567931"   "\$592477"   "\$600640"   "\$600643"   "\$621728"   "\$523981"   "\$632200"   "\$640466"   "\$661725"   "\$663491"   "\$632201"   "\$680390"   "\$629388"   "\$635980"   "\$6362010"   "\$680390"   "\$703876"   "\$708702"   "\$710769"   "\$719863"   "\$751706"   "\$796813"   "\$802045"   "\$993030"   "\$703876"   "\$900812"   "\$802045"   "\$993030"   "\$6132238").PN.  - 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |     | "5375124"   "5377186"   "5384771"   "5384840"                 |           |                  |
| "5418783"   "5420857"   "5426858"   "5420916"   "5428802"   "5434852"   "5426636"   "5428607"   "5428809"   "5434852"   "5434981"   "5440563"   "54348713"   "5446738"   "54516969"   "5433981"   "5454034"   "5457684"   "5461669"   "5463620"   "5453621"   "5473677"   "5473679"   "5473577"   "5479401"   "5479402"   "5476995"   "5483527"   "5485455"   "4594584"   "5504742"   "5506844"   "5509010"   "5509123"   "5513178"   "5519707"   "5521910"   "5529242"   "5539816"   "5539884"   "5549588"   "5539858"   "5539816"   "5539884"   "5548580"   "5559812"   "5559914"   "55399884"   "5548580"   "5556173"   "5559914"   "55627939"   "55600643"   "566172"   "5570368"   "5577039"   "5579311"   "5584758"   "5570368"   "5577039"   "5600643"   "5621728"   "5623491"   "5627836"   "560930"   "562938"   "5635980"   "5636210"   "5640446"   "5661725"   "566439"   "5636210"   "5640446"   "5651725"   "5708702"   "5506210"   "5690390"   "5703876"   "5708702"   "5800458"   "5892764"   "5920412"   "5920522"   "5840491"   "5991301").PN.) and sonet  10 sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)   USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  - 6 ("5436890"   "5526359"   "5872780"   "5901136"   USPAT   "5023872"   "6134238").PN.  - 7 ("4797654"   "4827477"   "4998242"   "5001708"   USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  - 113 370/907.ccls.  USPAT   USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  - 2003/12/14 14:13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "542882"   "5425090"   "5426636"   "542660"   "5428609"   "543852"   "5434981"   "544053"   "5444713"   "5446738"   "5435291"   "5453981"   "5434034"   "5457684"   "5461669"   "5463620"   "5463621"   "5473677"   "5479402"   "5479495"   "5483527"   "5485455"   "5495484"   "5504742"   "5506844"   "550910"   "550910"   "5509120"   "513178"   "551910"   "5521910"   "5522042"   "5526414"   "5533106"   "553968"   "5539815"   "5539816"   "5539884"   "5541918"   "5541926"   "5541611"   "55461673"   "5568475"   "5550412"   "55541611"   "5566173"   "5568475"   "5550319"   "5570368"   "5570368"   "5579311"   "5587999"   "5592477"   "5600640"   "5609307"   "5629307"   "5606349"   "5673262"   "5689307"   "5751706"   "5796813"   "5607362"   "5719863"   "5751706"   "5796813"   "5802045"   "5892764"   "5920412"   "592052"   "584041"   "5991301").P.N.) and sonet sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)    6 ("5436890"   "5526359"   "5872780"   "5901136"   "6055242"   "6134238").P.N.  7 ("4797654"   "4827477"   "4998242"   "5001708"   "5023872"   "5134614"   "5155728").P.N.  2003/12/14 14:13  2003/12/14 15:08  2003/12/14 15:08  2003/12/14 15:08  2003/12/14 15:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     | • • • • • • • • • • • • • • • • • • • •                       |           |                  |
| "5428609"   "5434673"   "544981"   "5440563"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |     |                                                               |           |                  |
| "544713"   "544768"   "5461669"   "5463620"   "5454034"   "547367"   "5473679"   "5463620"   "5463621"   "5473677"   "5473679"   "5473537"   "5479401"   "5479402"   "5479495"   "5473537"   "559910"   "5599123"   "5513178"   "5519707"   "559910"   "5599123"   "5513178"   "5519707"   "5521910"   "5522042"   "5526414"   "5533106"   "553968"   "5539815"   "5539816"   "5539884"   "5541918"   "5541926"   "5541921"   "5541611"   "5549181"   "5549261"   "5554152"   "5541611"   "5549181"   "5584995"   "5559014"   "5563939"   "556173"   "5586475"   "5559247"   "5600400"   "5609930"   "550819"   "5523491"   "5627836"   "5629930"   "5629938"   "5633990"   "56326210"   "5640446"   "5661725"   "5663491"   "5673262"   "5880568"   "5825780"   "5867502"   "5807622"   "5891301").PN.) and sonet  - 10 sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)  - 10 sonet.ab. and (tributar\$4 same module) and (oc\$5 or sts\$4)  - 6 ("5436890"   "5526359"   "5807502"   "5940491"   "5991301").PN.) and sonet  - 10 ("4797654"   "4827477"   "4998242"   "5901136"   USPAT   "6055242"   "6134238").PN.  - 113 ("4422171"   "4454601"   "4498186"   "4719624"   USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB   - 2003/12/14 14:13   - 2003/12/14 15:08   - 2003/12/14 15:08   - 2003/12/14 15:08   - 2003/12/14 15:08   - 2003/12/14 15:08   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23   - 2003/12/14 14:23                                                                                                                                                                                                                 |   |     |                                                               |           |                  |
| "5454034"   "5457684"   "5461669"   "5463620"   "5479401"   "5479402"   "5477679"   "5477537"   "5479401"   "5479402"   "5479495"   "5483527"   "5485455"   "5495484"   "55064742"   "5506844"   "5509010"   "5509123"   "5513178"   "5536844"   "5521910"   "5520242"   "5526414"   "5533106"   "533968"   "5539815"   "5539816"   "5539884"   "5541918"   "5541926"   "55544152"   "5544161"   "5548580"   "5550819"   "5550914"   "5563939"   "5566173"   "5568475"   "5570368"   "5577039"   "5579311"   "5587999"   "5592477"   "5600640"   "5600643"   "561728"   "5623938"   "5636210"   "5600643"   "561728"   "5623938"   "5636210"   "564046"   "5661728"   "5663980"   "5636210"   "5680390"   "5703876"   "5708702"   "5710769"   "5719863"   "5751706"   "5796813"   "5802045"   "5892764"   "5920412"   "5920562"   "5802045"   "5892764"   "5920412"   "5920562"   "5840491"   "5991301"),PN.) and sonet sonet.ab. and (tributar4 s ame module) and (cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)  -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |     |                                                               |           |                  |
| "5463621"  "5473677"  "5473679"  "5477537"     "5479401"  "5479402"  "5479495"  "5487537"     "5485455"  "5495484"  "5504742"  "5506844"     "5509010"  "5509123"  "5513178"  "5519707"     "5539688"  "5539815"  "5526414"  "5533106"     "5539688"  "5539815"  "55526414"  "55339884"     "5541918"  "5541926"  "5526414"  "55339884"     "556173"  "556475"  "5550914"  "5563939"     "5566173"  "556875091"  "5550939"     "560930"  "5708702"  "5570309"     "560930"  "5629388"  "563980"  "5627836"     "562930"  "5629388"  "563980"  "5627836"     "5689300"  "5708702"  "5710769"     "5719863"  "551708702"  "5710769"     "5719863"  "5719763"  "5798633"  "5807502"  "5710769"     "5719863"  "5719760"  "5798613"  "5802045"     "5805568"  "5825780"  "5867502"  "5867571"     "5991301"),PN.) and sonet   or (cross adj1 connect)) same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)     USPAT;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "5479401"   "5479402"   "5479495"   "5483527"   "5483455"   "5495484"   "5506844"   "5509010"   "5509123"   "5513178"   "5519707"   "5521910"   "5522042"   "5526414"   "5533806"   "5539698"   "5539815"   "5539816"   "5539884"   "554918"   "5549162"   "5544152"   "5544161"   "55548580"   "5550819"   "5550914"   "5563939"   "5566173"   "5568475"   "5550819"   "5570368"   "5570399"   "5579311"   "5587999"   "55792477"   "5600640"   "5600643"   "5629388"   "5633981"   "5633981"   "5632930"   "5660439"   "5663938"   "5635980"   "5636210"   "5680900"   "5703876"   "5708702"   "5710769"   "5719863"   "5751706"   "5796813"   "5802045"   "5892564"   "5920562"   "5940491"   "5991301").PN.) and sonet  - 10 sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)  - 6 ("5436890"   "5526359"   "5872780"   "5901136"   "6055242"   "6134238").PN.  - 7 ("4797654"   "4827477"   "4998242"   "5001708"   "5023872"   "5134614"   "5155728").PN.  113 370/907.ccls.  - 23 ("4422171"   "4454601"   "4498186"   "4719624"   "4967405"   "5189673"   "5265095"   "5291485"    - 24 ("4422171"   "4454601"   "4498186"   "4719624"   "4967405"   "5189673"   "5265095"   "5291485"    - 25 ("4422171"   "4454601"   "4498186"   "4719624"   "4967405"   "5189673"   "5265095"   "5291485"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |     | l i i i i i i i i i i i i i i i i i i i                       |           |                  |
| "5485455"   "4945484"   "5504742"   "5506844"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "5509010"   "5509123"   "5513178"   "5519707"   "551910"   "552042"   "5524414"   "5533106"   "5539698"   "5539815"   "5539816"   "5539884"   "5541918"   "5541926"   "5544152"   "5539884"   "5541918"   "5541926"   "5544152"   "5544161"   "5548580"   "5550819"   "5550914"   "5563939"   "5566173"   "5568475"   "5570368"   "557039"   "5579311"   "5587999"   "5592477"   "5600640"   "5600643"   "5621728"   "5623491"   "5627836"   "562930"   "5629938"   "5635980"   "5673262"   "5640446"   "5661725"   "5666349"   "5673262"   "5805568"   "5825780"   "5867502"   "5870262"   "5719863"   "5751706"   "5796813"   "5802045"   "5805568"   "5825780"   "5867502"   "5802045"   "5892764"   "55920412"   "59920562"   "5940491"   "5991301"),P.N.) and sonet sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)  -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |     | ·                                                             |           |                  |
| "5521910"   "5522042"   "5526414"   "5533106"       "5539698"   "5539816"   "5539816"   "5539816"       "5541918"   "5541926"   "5544152"   "5544161"       "5548580"   "5550819"   "5550914"   "5563939"       "5566173"   "5568475"   "5570368"   "5577039"       "5579311"   "5568475"   "5570368"   "5577039"       "5600643"   "55621726"   "5623491"   "5627836"       "5629930"   "5629938"   "5635980"   "5636210"       "5640446"   "5661725"   "566349"   "5673262"       "5680390"   "5703876"   "5708702"   "570769"       "5719863"   "5751706"   "5796813"   "5802045"       "5892764"   "5920412"   "5920562"   "5807571"       "5892764"   "5920412"   "5920562"   "5940491"       "5991301").P.N.) and sonet     - 10 sonet.ab. and (tributar\$4 same module) and (cc\$5 or sts\$4)     - (cross adj1 connect)) same module) and (oc\$5 or sts\$4)     - 6 ("5436890"   "5526359"   "5872780"   "5901136"       "6055242"   "6134238").PN.     - 7 ("4797654"   "4827477"   "4998242"   "5001708"       "5023872"   "5134614"   "5155728").PN.     - 113 370/907.ccls.     - 23 ("4422171"   "4454601"   "4498186"   "4719624"       "4967405"   "5189673"   "5265095"   "5291485"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |     |                                                               |           |                  |
| "5539698"   "5539815"   "5539816"   "5539884"   "5541918"   "5541926"   "5544152"   "5544161"   "5548580"   "5550819"   "5550914"   "5563939"   "5566173"   "5568475"   "5550914"   "5563939"   "5579311"   "5587999"   "5522477"   "5600640"   "5600643"   "5621728"   "5623491"   "5627836"   "5629930"   "5629938"   "5633980"   "5635210"   "5680390"   "5629938"   "5633980"   "563220"   "5680390"   "5703876"   "5708702"   "5710769"   "5719863"   "5751706"   "5796813"   "5802045"   "5892764"   "5920412"   "5920562"   "5940491"   "5991301").PN.) and sonet sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)  -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |     |                                                               |           |                  |
| "5541918"   "5541926"   "5544152"   "5544161"   "5548580"   "5550819"   "5550914"   "5550939"   "5548580"   "55568475"   "5550914"   "5563939"   "5566173"   "5568475"   "5550914"   "5563939"   "55606343"   "55624728"   "55243491"   "5600640"   "5600643"   "5621728"   "5623491"   "5627836"   "5629930"   "5629938"   "5635980"   "5636210"   "5640446"   "5661725"   "5666349"   "5673262"   "580390"   "5703876"   "5708702"   "5710769"   "5719863"   "5751706"   "5796813"   "5802045"   "5805568"   "5825780"   "5867502"   "5867571"   "5892764"   "5920412"   "5920562"   "5940491"   "5991301").P.N.) and sonet - 10 sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)   - 6 ("5436890"   "5526359"   "5872780"   "5901136"   USPAT USPAT 2003/12/14 14:08   - 7 ("4797654"   "4827477"   "4998242"   "5001708"   USPAT 2003/12/14 14:13   "5023872"   "5134614"   "5155728").P.N 113 370/907.ccls.   USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 2003/12/14 15:08   - 23 ("4422171"   "4454601"   "4498186"   "4719624"   USPAT 2003/12/14 14:23   "4967405"   "5189673"   "5265095"   "5291485"   USPAT 2003/12/14 14:23   "4967405"   "5189673"   "5265095"   "5291485"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |     |                                                               |           |                  |
| "5548580"   "5550819"   "5550914"   "5563939"     "5566173"   "5566475"   "5570368"   "5570399"     "5566173"   "5568475"   "5570368"   "55707039"     "5579311"   "5587999"   "5592477"   "5600640"     "5600643"   "5621728"   "5627836"     "5629930"   "5629938"   "5635980"   "5636210"     "5640446"   "5661725"   "5666349"   "5635262"     "5680390"   "5703876"   "5780702"   "5710769"     "5719863"   "5751706"   "5796813"   "5802045"     "5892764"   "5920412"   "5920562"   "5867571"     "5892764"   "5920412"   "5920562"   "5940491"     "5991301"),PN.) and sonet     sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)     USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB     "6055242"   "6134238"),PN.     USPAT   2003/12/14 14:13     "5023872"   "55134614"   "5155728"),PN.     USPAT   2003/12/14 14:13     "5023872"   "5134614"   "5155728"),PN.     USPAT   2003/12/14 15:08     EPO; JPO; DERWENT; IBM_TDB     USPAT   2003/12/14 15:08     USPAT   2003/12/14 15:08     USPAT   2003/12/14 15:08     USPAT   2003/12/14 14:13     "5023872"   "5134614"   "5155728"),PN.     USPAT   2003/12/14 14:13     "5023872"   "5138673"   "5265095"   "5291485"   USPAT   2003/12/14 14:23     "4967405"   "5189673"   "5295095"   "5291485"   USPAT   2003/12/14 14:23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |     |                                                               |           |                  |
| "5566173"   "5568475"   "5570368"   "5577039"   "5579311"   "5587999"   "5592477"   "5600640"   "5600643"   "5621728"   "5623491"   "5627836"   "5629930"   "5629938"   "5633980"   "56336210"   "5640446"   "5661725"   "5666349"   "5673262"   "5680390"   "5703876"   "5708702"   "5710769"   "5719863"   "57571706"   "5796813"   "5802045"   "589568"   "5825780"   "5867502"   "5802045"   "5892764"   "5920412"   "5920562"   "5940491"   "5991301").PN.) and sonet sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)    -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |     | "5541918"   "5541926"   "5544152"   "5544161"                 |           |                  |
| "5579311"   "5587999"   "5592477"   "5600640"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     | "5548580"   "5550819"   "5550914"   "5563939"                 |           |                  |
| "5579311"   "5587999"   "5592477"   "5600640"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     | "5566173"   "5568475"   "5570368"   "5577039"                 |           |                  |
| "5600643"   "5621728"   "5623491"   "5627836"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     |                                                               |           |                  |
| "5629930"   "5629938"   "5635980"   "5636210"     "5640446"   "5661725"   "5666349"   "5673262"     "5880390"   "5708702"   "5708702"   "5710769"     "5719863"   "5751706"   "5708702"   "5802045"     "5892568"   "5825780"   "58057502"   "5802045"     "5892764"   "5920412"   "5920562"   "5940491"     "5991301").PN.) and sonet   sonet.ab. and (tributar\$4 same module) and ((cross-connect or cross adj1 connect)) same module) and (oc\$5 or sts\$4)     USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |     |                                                               |           |                  |
| "5640446"   "5661725"   "5666349"   "5673262"     "5680390"   "5703876"   "5708702"   "5710769"     "5719863"   "5751706"   "5796813"   "5802045"     "5892764"   "5920412"   "5920562"   "5940491"     "5991301").PN.) and sonet   sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)     -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |     | , , , , , , , , , , , , , , , , , , , ,                       |           |                  |
| "5680390"   "5703876"   "5708702"   "5710769"     "5719863"   "5751706"   "5796813"   "5802045"     "5805568"   "5825780"   "5867502"   "5867571"     "5892764"   "5920412"   "5920562"   "5940491"     "5991301").PN.) and sonet   sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)   US-PGPUB; EPO; JPO; DERWENT; IBM_TDB     "6055242"   "6134238").PN.     "6055242"   "6134238").PN.     "6055242"   "6134238").PN.     "7 ("4797654"   "4827477"   "4998242"   "5001708"   USPAT   2003/12/14 14:13     "5023872"   "5134614"   "5155728").PN.   USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB     USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB   USPAT   2003/12/14 15:08     "8 ("4422171"   "4454601"   "4498186"   "4719624"   USPAT   2003/12/14 14:23     "4967405"   "5189673"   "5265095"   "5291485"   USPAT   2003/12/14 14:23     "4967405"   "5189673"   "5265095"   "5291485"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |     | l i i i i i i i i i i i i i i i i i i i                       |           |                  |
| "5719863"   "5751706"   "5796813"   "5802045"     "5805568"   "5825780"   "5867502"   "5867571"     "5892764"   "5920412"   "5920562"   "5940491"     "5991301").PN.) and sonet   sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |                                                               |           |                  |
| "5805568"   "5825780"   "5867502"   "5867571"     "5892764"   "5920412"   "5920562"   "5940491"     "5991301").PN.) and sonet   sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)     USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB     USPAT   2003/12/14 14:08     "6055242"   "6134238").PN.     "6055242"   "6134238").PN.     "7 ("4797654"   "4827477"   "4998242"   "5001708"   USPAT     "5023872"   "5134614"   "5155728").PN.     USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB     USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB                                                                                                                                 |   |     |                                                               |           |                  |
| "5892764"   "5920412"   "5920562"   "5940491"     "5991301").PN.) and sonet   sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |     |                                                               |           |                  |
| - 10 "5991301").PN.) and sonet sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4) USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 2003/12/14 14:08 "6055242"   "6134238").PN 7 ("4797654"   "4827477"   "4998242"   "5001708"   USPAT 2003/12/14 14:13 "5023872"   "5134614"   "5155728").PN 113 370/907.ccls. USPAT; USP                                                                                                                                  |   |     |                                                               |           |                  |
| - 10 sonet.ab. and (tributar\$4 same module) and ((cross-connect or (cross adj1 connect)) same module) and (oc\$5 or sts\$4) USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB - 6 ("5436890"   "5526359"   "5872780"   "5901136"   USPAT 2003/12/14 14:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |     |                                                               |           |                  |
| or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)  Or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)  Or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)  US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  USPAT  OUSPAT  OUSPAT  OUSPAT  OUSPAT  OUSPAT  OUSPAT  OUSPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  OUSPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  OUSPAT  OUSPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  OUSPAT                                                                                                                         |   |     |                                                               | LICDAT    | 2002/42/44 44:47 |
| EPO; JPO; DERWENT; IBM_TDB  - 6 ("5436890"   "5526359"   "5872780"   "5901136"   USPAT 2003/12/14 14:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - | 10  |                                                               | ,         | 2003/12/14 14:17 |
| - 6 ("5436890"   "5526359"   "5872780"   "5901136"   USPAT 2003/12/14 14:08 "6055242"   "6134238").PN 7 ("4797654"   "4827477"   "4998242"   "5001708"   USPAT 2003/12/14 14:13 "5023872"   "5134614"   "5155728").PN 113 370/907.ccls. USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB (PO; JPO; DERWENT; IBM_TDB (USPAT) USPAT 2003/12/14 14:23 "4967405"   "5189673"   "5265095"   "5291485"   USPAT 2003/12/14 14:23 "4967405"   "5189673"   "5265095"   "5291485"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |     | or (cross adj1 connect)) same module) and (oc\$5 or sts\$4)   |           |                  |
| - 6 ("5436890"   "5526359"   "5872780"   "5901136"   USPAT 2003/12/14 14:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |     |                                                               |           |                  |
| - 6 ("5436890"   "5526359"   "5872780"   "5901136"   USPAT 2003/12/14 14:08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |     |                                                               |           |                  |
| - 113   "6055242"   "6134238").PN.   USPAT   2003/12/14 14:13   USPAT   2003/12/14 14:13   USPAT   2003/12/14 14:13   USPAT   USPAT   2003/12/14 15:08   USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB   USPAT   USPAT   USPAT   2003/12/14 14:23   USPAT   USPA                                                                                                                               |   |     |                                                               |           |                  |
| - 113   "6055242"   "6134238").PN.   USPAT   2003/12/14 14:13   USPAT   2003/12/14 14:13   USPAT   2003/12/14 14:13   USPAT   USPAT   2003/12/14 15:08   USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB   USPAT   USPAT   USPAT   2003/12/14 14:23   USPAT   USPA                                                                                                                               | - | 6   | ("5436890"   "5526359"   "5872780"   "5901136"                | USPAT     | 2003/12/14 14:08 |
| - 7 ("4797654"   "4827477"   "4998242"   "5001708"   USPAT 2003/12/14 14:13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 |     |                                                               |           |                  |
| - 113 "5023872"   "5134614"   "5155728").PN.  370/907.ccls. USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB  ("4422171"   "4454601"   "4498186"   "4719624"   USPAT 2003/12/14 14:23"   USPAT 2003/12/14                                                                                                                                | - | 7   |                                                               | USPAT     | 2003/12/14 14:13 |
| - 113 370/907.ccls. USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT 2003/12/14 14:23 "4967405"   "5189673"   "5265095"   "5291485"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |     |                                                               |           |                  |
| US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>- 23 ("4422171"   "4454601"   "4498186"   "4719624"   USPAT 2003/12/14 14:23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   | 113 |                                                               | USPAT:    | 2003/12/14 15:08 |
| EPO; JPO; DERWENT; IBM_TDB USPAT 2003/12/14 14:23 "4967405"   "5189673"   "5265095"   "5291485"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 |     |                                                               |           |                  |
| DERWENT;   IBM_TDB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |     |                                                               |           |                  |
| - 23 ("4422171"   "4454601"   "4498186"   "4719624"   USPAT 2003/12/14 14:23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |     |                                                               |           |                  |
| - 23 ("4422171"   "4454601"   "4498186"   "4719624"   USPAT 2003/12/14 14:23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |     |                                                               |           |                  |
| "4967405"   "5189673"   "5265095"   "5291485"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   | 32  | /!!//>>4740-11/4#   !!//E//CO4!!   !!//AOO4OC!!   !!/740C>4!! |           | 2002/12/14 14:22 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 23  |                                                               | USPAT     | 2003/12/14 14:23 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |     |                                                               |           |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |     | "5297144"   "5301187"   "5343464"   "5355362"                 |           |                  |
| "5528605"   "5530693"   "5564021"   "5588009"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     |                                                               |           |                  |
| "5678178"   "5745685"   "5796723"   "5923653"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     |                                                               | [         |                  |
| "5940456"   "6011802"   "6055226").PN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |     | "5940456"   "6011802"   "6055226").PN.                        | <u> </u>  |                  |

| - | 8         | ("5315594"   "5572515"   "5623357"   "5878039"  <br>"5917827"   "6011802"   "6014708"   "6094440").PN.                                                                                                                                                                                                                                                                      | USPAT                                                            | 2003/12/14 14:40                     |
|---|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|
| - | 1057      | 370/466.ccls.                                                                                                                                                                                                                                                                                                                                                               | USPAT;<br>US-PGPUB;                                              | 2003/12/14 18:02                     |
| - | 164       | 370/466.ccls. and sonet                                                                                                                                                                                                                                                                                                                                                     | EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT;<br>US-PGPUB;          | 2003/12/14 15:08                     |
| - | 164       | 370/466.ccls. and sonet                                                                                                                                                                                                                                                                                                                                                     | EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT;<br>US-PGPUB;          | 2003/12/14 16:08                     |
| _ | 12        | ("5490252"   "5533018"   "5600653"   "6075788"                                                                                                                                                                                                                                                                                                                              | EPO; JPO;<br>DERWENT;<br>IBM_TDB<br>USPAT                        | 2003/12/14 15:18                     |
|   | 14        | "6122281"   "6185635"   "6195346"   "6198751"  <br>"6237029"   "6266333"   "6418145"   "6466591").PN.                                                                                                                                                                                                                                                                       | OSPAT                                                            | 2003/12/14 13:10                     |
| • | 30        | ("4339633"   "4592048"   "4631641"   "4926416"   "4959833"   "5345446"   "5365524"   "5396491"   "5398236"   "5412652"   "5467348"   "5519700"   "5526359"   "5594729"   "5729536"   "5793760"   "5796720"   "5805568"   "5812796"   "5838924"   "5844887"   "5864553"   "5867484"   "5920412"   "5953330"   "5963553"   "6125111"   "6141346"   "6266333"   "6134238").PN. | USPAT                                                            | 2003/12/14 15:36                     |
| - | 35        | 370/466.ccis. and sonet and ((first same second).ab.)                                                                                                                                                                                                                                                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | 2003/12/14 16:08                     |
| • | 20        | (370/466.ccls. and sonet ) and (backplane or back adj1 plane)                                                                                                                                                                                                                                                                                                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | 2003/12/14 18:26                     |
| - | 2         | ("6587470").PN.                                                                                                                                                                                                                                                                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | 2003/12/14 18:26                     |
| - | 8         | ("4967405"   "4998242"   "5040170"   "5185736"  <br>"5315594"   "5497363"   "5848065"   "6160806").PN.                                                                                                                                                                                                                                                                      | USPAT                                                            | 2003/12/14 18:26                     |
| - | 5         | ("5172306"   "5355362"   "5497363"   "5570364"  <br>"5583855").PN.                                                                                                                                                                                                                                                                                                          | USPAT                                                            | 2003/12/14 18:34                     |
| - | 3<br>2    | 5848065.URPN.<br>("6587470").PN.                                                                                                                                                                                                                                                                                                                                            | USPAT<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/14 18:36<br>2003/12/15 18:46 |
| - | 2         | ("4967405").PN.                                                                                                                                                                                                                                                                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | 2003/12/15 18:47                     |
| - | 2         | ("5848065").PN.                                                                                                                                                                                                                                                                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | 2003/12/15 18:48                     |
| C | C 12 10 4 | 11:45:22 AM Page 5                                                                                                                                                                                                                                                                                                                                                          |                                                                  |                                      |

Search History 5/3/04 11:45:22 AM Page 5

| - | 2 | ("5436890").PN. | USPAT;    | 2003/12/15 18:48 |
|---|---|-----------------|-----------|------------------|
|   |   |                 | US-PGPUB; |                  |
|   |   |                 | EPO; JPO; |                  |
| i |   |                 | DERWENT;  |                  |
|   |   |                 | IBM_TDB   |                  |
| - | 2 | ("6317439").PN. | USPAT;    | 2003/12/15 18:48 |
|   |   |                 | US-PGPUB; |                  |
|   |   |                 | EPO; JPO; |                  |
|   |   |                 | DERWENT;  |                  |
|   |   |                 | IBM_TDB   |                  |